USPTO

STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 104438

TO: Deborah Lambkin **Location:** **Art Unit: 1626** **September 24, 2003** **Case Serial Number: 10/034819**	**From: P. Sheppard** **Location: CM1-1E03** **Phone: (703) 308-4499** **sheppard@uspto.gov**

Search Notes

Access DB# __________

SEARCH REQUEST FORM

Scientific and Technical Information Center

equester's Full Name _P. Lan[illegible]_ Examiner #: _71[illegible]_ Date: _7/22/03_
rt Unit: _[illegible]_ Phone Number 30[illegible] Serial Number _[illegible]_
ail Box and Bldg Room Location _[illegible]_ Results Format Preferred (circle): PAPER DISK E-MAIL

more than one search is submitted, please prioritize searches in order of need.

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lease provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. nclude the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or tility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if nown. Please attach a copy of the cover sheet, pertinent claims, and abstract.

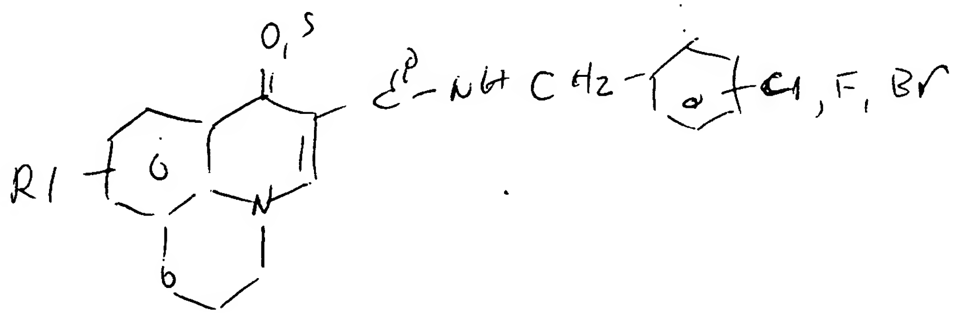
itle of Invention _Thioxazinoquinolones as antiviral agents_

nventors (please provide full names): ______________________________

____

Earliest Priority Filing Date ______________

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*



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STAFF USE ONLY	Type of Search	Vendors and cost where applicable
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Searcher Phone #: 308-4499	AA Sequence (#) ______	Dialog ______
Searcher Location: ______	Structure (#) ______	Questel/Orbit ______

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FILE COVERS 1907 - 24 Sep 2003  VOL 139 ISS 13
FILE LAST UPDATED: 23 Sep 2003  (20030923/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.


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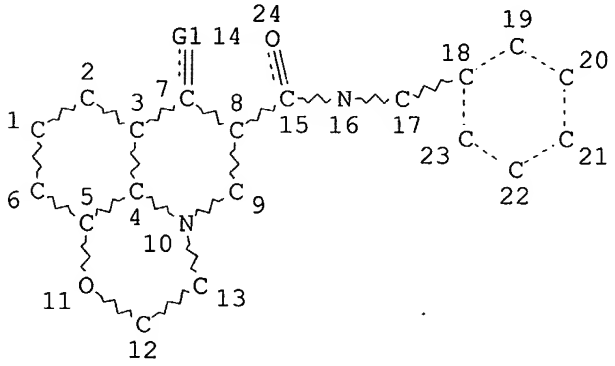


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DEFAULT ECLEVEL IS LIMITED
ECOUNT  IS UNLIMITED  AT  12 13

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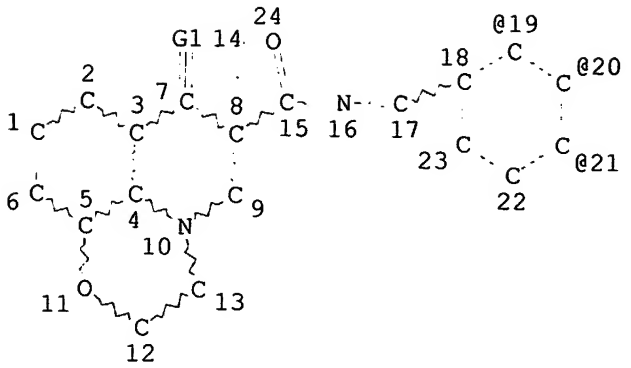

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MLEVEL IS CLASS AT 12 13
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS UNLIMITED AT 12 13

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 25

STEREO ATTRIBUTES: NONE
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L8 5 SEA FILE=HCAPLUS ABB=ON PLU=ON L7

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L8 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2002:637529 HCAPLUS
DOCUMENT NUMBER: 137:185492
TITLE: Preparation of thioxazinoquinolones useful for the treatment of viral infections
INVENTOR(S): Thorarensen, Atli
PATENT ASSIGNEE(S): Pharmacia & Upjohn Company, USA
SOURCE: PCT Int. Appl., 27 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002064145	A1	20020822	WO 2002-US1235	20020205

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,

CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2002143013 A1 20021003 US 2001-34819 20011227

PRIORITY APPLN. INFO.: US 2001-268302P P 20010213

OTHER SOURCE(S): MARPAT 137:185492

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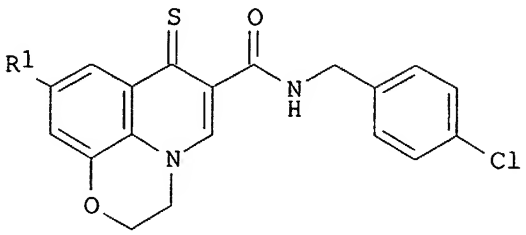

I

AB Thioxazinoquinolones [I; wherein R1 is (C1-C6)alkyl, optionally substituted with OH, (C1-C4)alkyloxy, O, S, N, heterocyclic ring, etc.] were prepd. Thus, N-(4-chlorobenzyl)-9-(4-morpholinylmethyl)-7-oxo-2,3-dihydro-7H-[1,4]oxazino[2,3,4-ij]quinoline-6-carboxamide, which was prepd. by a multistep procedure, exhibited an IC50 value of 0.06 .mu.M against human cytomegalovirus. These compds. are useful as antiviral agents, in particular, as agents against viruses of the herpes family, including HSV-1, HSV-2, varicella zoster virus, human cytomegalovirus, Epstein-Barr virus, human herpes virus 6, human herpes virus 7, or human herpes virus 8.

IT **449184-20-7P 449184-21-8P 449184-23-0P**
449184-26-3P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of thioxazinoquinolones useful for treatment of viral infections)

IT **333780-66-8P 333780-67-9P 333780-68-0P**
333780-69-1P 333780-79-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of thioxazinoquinolones useful for treatment of viral infections)

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2002:72315 HCAPLUS

DOCUMENT NUMBER: 136:129036

TITLE: Method of screening 4-hydroxyquinolin (4-HQ), 4-oxo-dihydroquinoline (4-oxo-DHQ), and 4-oxo-dihydrothienopyridine (4-oxo-DHTP) derivatives as non-nucleoside herpesvirus DNA polymerase inhibitor

INVENTOR(S): Homa, Fred L.; Wathen, Michael W.; Hopkins, Todd A.; Thomsen, Darrel R.

PATENT ASSIGNEE(S): Pharmacia & Upjohn Company, USA

SOURCE: PCT Int. Appl., 126 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002006513	A2	20020124	WO 2001-US16525	20010713
WO 2002006513	A3	20030123		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 2002076789	A1	20020620	US 2001-904065	20010712

PRIORITY APPLN. INFO.: US 2000-218118P P 20000713
US 2001-283880P P 20010413

AB The present invention provides a method for selecting non-nucleoside herpesvirus DNA polymerase inhibitors from 4-HQ, 4-oxo-DHQ, and 4-oxo-DHTP derivs. by measuring IC50. The invention also provides sequences of mutant herpesvirus DNA polymerase genes which resist non-nucleoside inhibitors, and herpesvirus mutant strains contg. the drug-resistant DNA polymerase genes. The present invention relates to a method for selecting an anti-herpes viral compd. and a method for selectively inhibiting herpesvirus in a human host in need of such treatment. The present invention relates to a method for selecting an anti-herpes viral compd. and a method for selectively inhibiting herpesvirus in a human host in need of such treatment.

IT **333780-66-8**
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(4-HQ, 4-oxo-DHQ, and 4-oxo-DHTP derivs. as non-nucleoside herpesvirus DNA polymerase inhibitor)

L8 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2002:51474 HCAPLUS
DOCUMENT NUMBER: 136:102391
TITLE: Preparation of oxazinoquinolones for the treatment of viral infections
INVENTOR(S): Thaisrivongs, Suvit; Turner, Steven R.; Thorarensen, Atli
PATENT ASSIGNEE(S): Pharmacia & Upjohn Company, USA
SOURCE: PCT Int. Appl., 159 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002004462	A1	20020117	WO 2001-US16507	20010629

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 2002103170 A1 20020801 US 2001-894354 20010628
EP 1299395 A1 20030409 EP 2001-948231 20010629
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
PRIORITY APPLN. INFO.: US 2000-217555P P 20000712
US 2001-262211P P 20010117
US 2001-268255P P 20010213
US 2000-218114P P 20000713
WO 2001-US16507 W 20010629

OTHER SOURCE(S): MARPAT 136:102391
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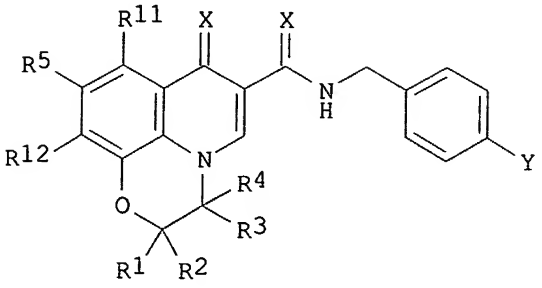

I

AB The title compds. [I; X = O, S; Y = Cl, F, Br, CN, NO2; R1-R4 = H, N3, CN, etc.; R1 and R2 or R3 and R4 together with the carbon to which they are attached form cycloalkyl or heterocyclyl; R5 = (un)substituted alkyl which may be partially unsatd.; R11, R12 = H, halo, NO2, etc.], useful as antiviral agents, in particular, as agents against viruses of the herpes family, were prepd. Thus, reacting Et 2-[(acetyloxy)methyl]-9-(4-morpholinylmethyl)-7-oxo-2,3-dihydro-7H-[1,4]oxazino[2,3,4-ij]quinoline-6-carboxylate (multi-step prepn. given) with 4-ClC6H4CH2NH2 afforded I [X = O; Y = Cl; R1 = CH2OH; R2-R4 = H; R5 = 4-morpholinylmethyl; R11, R12 = H] which showed IC50 of 0.61 .mu.M against cytomegavirus (CMV) polymerase.

IT **389133-56-6P 389133-75-9P 389133-76-0P**
389134-04-7P 389134-07-0P 389134-08-1P
389134-11-6P 389134-18-3P 389134-21-8P
389134-23-0P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(prepn. of oxazinoquinolones for the treatment of viral infections)

IT **389133-57-7P 389133-58-8P 389133-59-9P**
389133-60-2P 389133-61-3P 389133-62-4P
389133-63-5P 389133-64-6P 389133-65-7P
389133-66-8P 389133-67-9P 389133-68-0P
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389135-51-7P 389135-52-8P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of oxazinoquinolones for the treatment of viral infections)

IT 389134-35-4P 389134-60-5P 389134-61-6P
389134-62-7P 389134-63-8P 389134-66-1P
389134-67-2P 389134-85-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of oxazinoquinolones for the treatment of viral infections)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2002:51457 HCAPLUS
DOCUMENT NUMBER: 136:118477
TITLE: Preparation of heterocycle carboxamides as antiviral agents
INVENTOR(S): Anderson, David J.; Beauchamp, Thomas J.; Bundy, Gordon L.; Ciske, Fred L.; Farrell, John R.; Graber, David R.; Genin, Michael J.; Judge, Thomas M.; Moon, Malcolm W.; Schnute, Mark E.; Strohbach, Joseph W.; Thaisrivongs, Suvit; Thorarensen, Atli; Turner, Steven R.; Vaillancourt, Valerie A.; Wolf, Allison J.
PATENT ASSIGNEE(S): Pharmacia & Upjohn Company, USA
SOURCE: PCT Int. Appl., 132 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002004445	A1	20020117	WO 2001-US16494	20010625

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UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 2002025959	A1	20020228	US 2001-887578	20010622
US 6624159	B2	20030923		
EP 1299387	A1	20030409	EP 2001-948226	20010625

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

PRIORITY APPLN. INFO.:	US 2000-217559P	P	20000712
	US 2001-272143P	P	20010228
	WO 2001-US16494	W	20010625

OTHER SOURCE(S): MARPAT 136:118477

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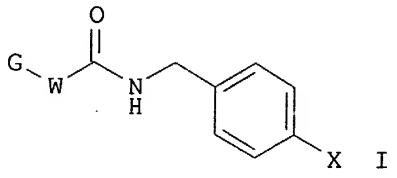

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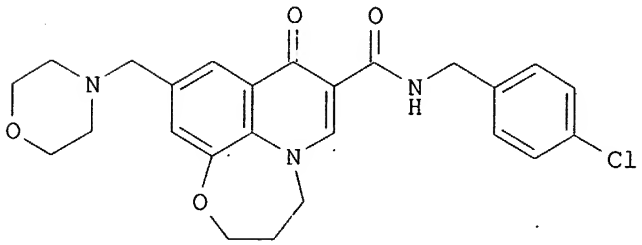

II

AB The title compds. [I; X = Cl, Br, F, CN, NO2; G = alkyl which is fully satd. or partially unsatd. and is substituted by OH or alkyl substituted by NR1R2 or tetrahydropyran; R1 = alkyl substituted by OH, alkoxy or aryl; R2 = H, alkyl; or NR1R2 = (un)substituted morpholino, pyrrolidino substituted by OH; W = pyridoquinoxaline, pyrroloquinoline, pyridoquinoline, etc.], useful as antiviral agents, in particular, as agents against viruses of the herpes family, were prepd. Thus, a multi-step synthesis of II which showed IC50 of 0.65 .mu.M against HCMV polymerase, was given.

IT **390371-38-7P 390371-40-1P 390371-42-3P**
390371-44-5P 390371-46-7P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of heterocycle carboxamides as antiviral agents)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER:	2001:265422 HCAPLUS
DOCUMENT NUMBER:	134:280849
TITLE:	Preparation of oxazinoquinolones for the treatment of viral infections
INVENTOR(S):	Turner, Steven Ronald; Thaisrivongs, Suvit

PATENT ASSIGNEE(S): Pharmacia & Upjohn Company, USA
SOURCE: PCT Int. Appl., 19 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001025239	A2	20010412	WO 2000-US21985	20000928
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
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US 6340680	B1	20020122	US 2000-672472	20000928
EP 1220858	A2	20020710	EP 2000-966694	20000928
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003511382	T2	20030325	JP 2001-528183	20000928

PRIORITY APPLN. INFO.: US 1999-157742P P 19991005
WO 2000-US21985 W 20000928

OTHER SOURCE(S): MARPAT 134:280849

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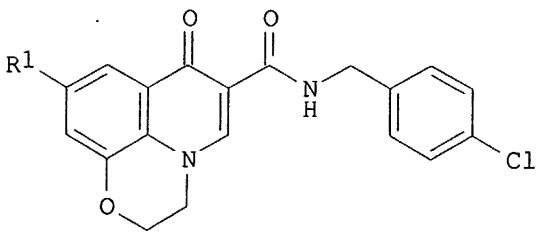

I

AB The title compds. [I; R1 = (un)satd. alkyl optionally substituted with OH, O(alkyl) or heterocyclyl ring], useful as antiviral agents, in particular, as agents against viruses of the herpes family, were prepd. E.g., a multi-step synthesis of I [R1 = 4-morpholinylmethyl] which showed IC50 of 0.48 .mu.M against HCMV polymerase, was given.

IT **333780-67-9P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(prepn. of oxazinoquinolones for the treatment of viral infections)

IT **333780-66-8P 333780-68-0P 333780-69-1P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of oxazinoquinolones for the treatment of viral infections)

IT **333780-79-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of oxazinoquinolones for the treatment of viral infections)

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FILE 'CAOLD' ENTERED AT 11:03:44 ON 24 SEP 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE COVERS 1907-1966
FILE LAST UPDATED:  01 May 1997 (19970501/UP)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.  Title keywords, authors, patent
  assignees, and patent information, e.g., patent numbers, are
  now searchable from 1907-1966.  TIFF images of CA abstracts
  printed between 1907-1966 are available in the PAGE
  display formats.

  This file supports REG1stRY for direct browsing and searching of
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  more information.

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L9            0 L7

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USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   23 SEP 2003  HIGHEST RN 591719-82-3
DICTIONARY FILE UPDATES:  23 SEP 2003  HIGHEST RN 591719-82-3

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available.  See HELP
PROPERTIES for more information.  See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

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L7 ANSWER 1 OF 157 REGISTRY COPYRIGHT 2003 ACS on STN
RN 449184-26-3 REGISTRY
CN 7H-Pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxamide, N-[(4-chlorophenyl)methyl]-2,3-dihydro-9-propyl-7-thioxo- (9CI) (CA INDEX NAME)
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MF C22 H21 Cl N2 O2 S
SR CA
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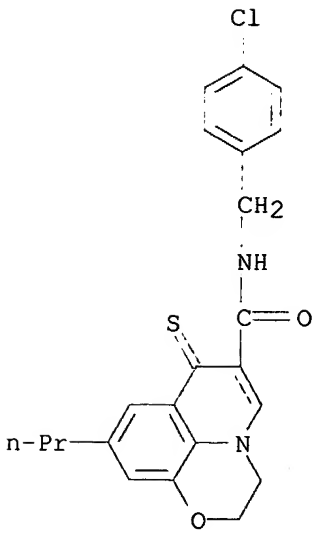

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RN 390371-46-7 REGISTRY
CN 7H-Pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxamide, N-[(4-chlorophenyl)methyl]-9-(4-morpholinylmethyl)-7-oxo-2-(3-pyridinyl)- (9CI) (CA INDEX NAME)
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LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

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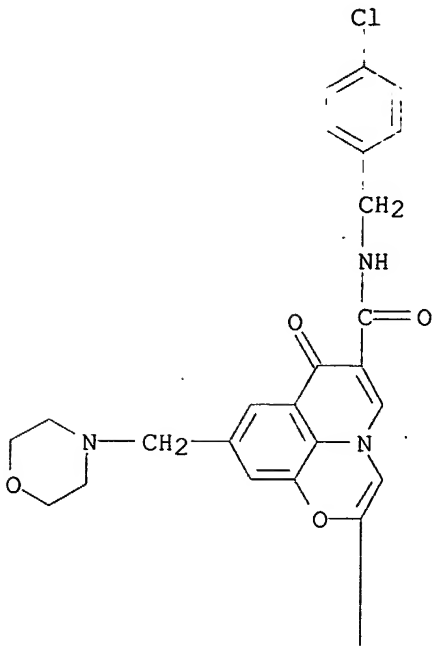

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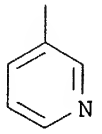

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REFERENCE 1: 136:118477

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RN 389135-52-8 REGISTRY
CN Spiro[piperidine-4,2'(3'H)-[7H]pyrido[1,2,3-de][1,4]benzoxazine]-6'-carboxamide, N-[(4-chlorophenyl)methyl]-1-methyl-9'-(4-morpholinylmethyl)-7'-thioxo- (9CI) (CA INDEX NAME)
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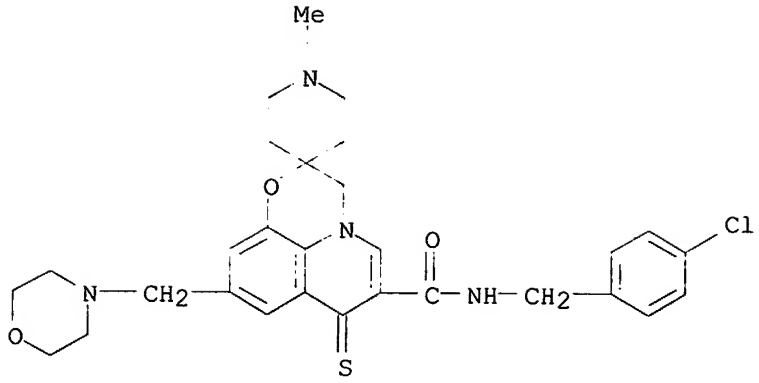
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



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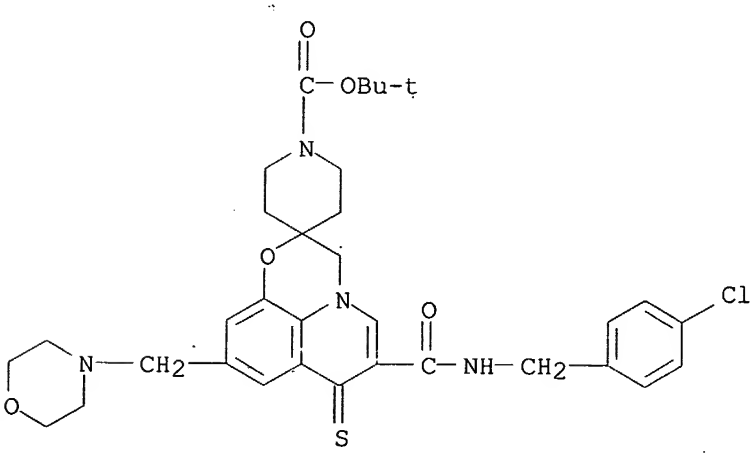
REFERENCE 1: 136:102391

L7 ANSWER 20 OF 157 REGISTRY COPYRIGHT 2003 ACS on STN
RN 389135-42-6 REGISTRY
CN Spiro[piperidine-4,2'(3'H)-[7H]pyrido[1,2,3-de][1,4]benzoxazine]-1-carboxylic acid, 6'-[[[(4-chlorophenyl)methyl]amino]carbonyl]-9'-(4-morpholinylmethyl)-7'-thioxo-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C33 H39 Cl N4 O5 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



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REFERENCE 1: 136:102391

L7 ANSWER 30 OF 157 REGISTRY COPYRIGHT 2003 ACS on STN
RN 389135-32-4 REGISTRY
CN Phosphoric acid, [6-[[[(4-chlorophenyl)methyl]amino]carbonyl]-2,3-dihydro-9-(4-morpholinylmethyl)-7-thioxo-7H-pyrido[1,2,3-de]-1,4-benzoxazin-2-yl]methyl dimethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C27 H31 Cl N3 O7 P S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

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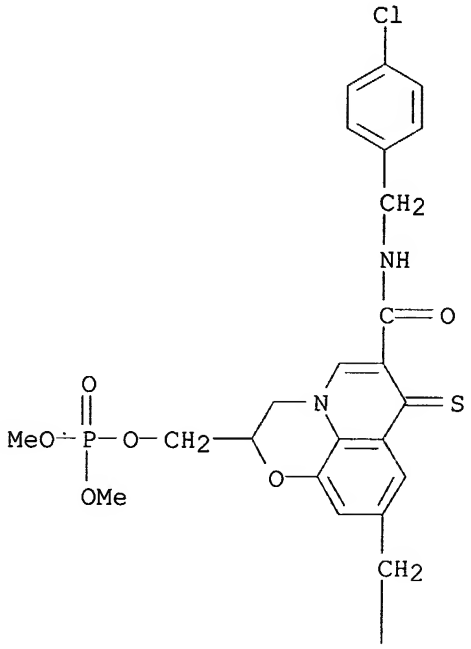

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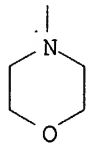

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REFERENCE 1: 136:102391

L7 ANSWER 40 OF 157 REGISTRY COPYRIGHT 2003 ACS on STN
RN 389135-22-2 REGISTRY
CN 7H-Pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxamide, N-[(4-chlorophenyl)methyl]-2,3-dihydro-2-[(4-methyl-1-piperazinyl)methyl]-9-(4-morpholinylmethyl)-7-thioxo- (9CI) (CA INDEX NAME)
FS 3D CONCORD

MF C30 H36 Cl N5 O3 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

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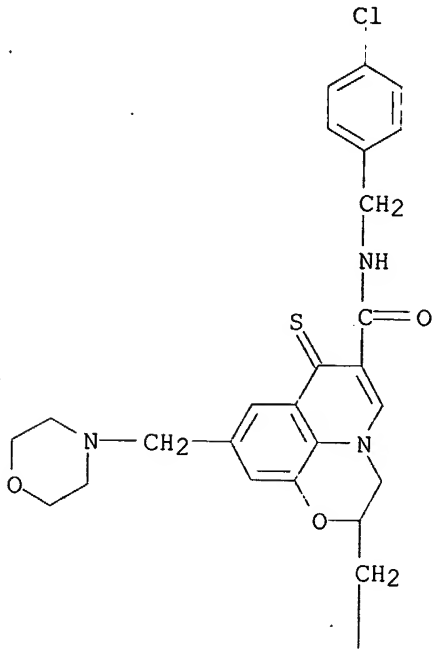

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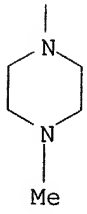

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L7 ANSWER 50 OF 157 REGISTRY COPYRIGHT 2003 ACS on STN
RN 389135-12-0 REGISTRY
CN 7H-Pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxamide, 2-[3,5-bis(methoxymethoxy)phenyl]-N-[(4-chlorophenyl)methyl]-2,3-dihydro-9-(4-morpholinylmethyl)-7-thioxo- (9CI) (CA INDEX NAME)
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MF C34 H36 Cl N3 O7 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

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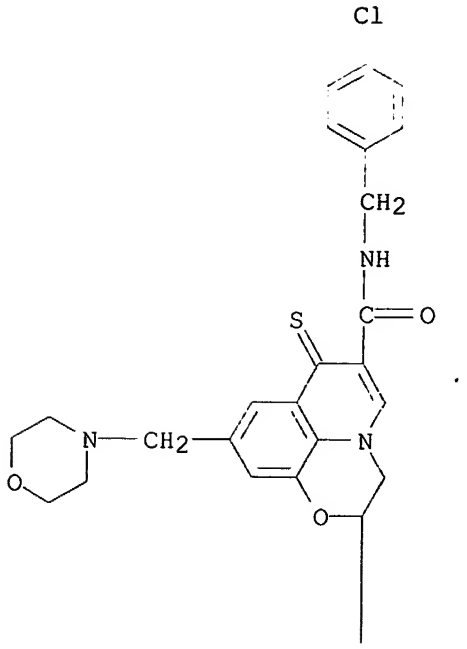

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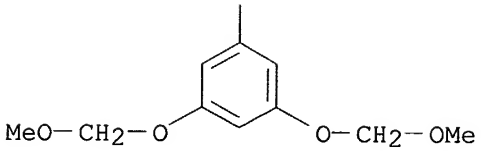

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REFERENCE 1: 136:102391

L7 ANSWER 63 OF 157 REGISTRY COPYRIGHT 2003 ACS on STN
RN 389134-99-0 REGISTRY
CN 7H-Pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxamide, 2-[(acetyloxy)methyl]-N-[(4-chlorophenyl)methyl]-2,3-dihydro-9-(4-morpholinylmethyl)-7-thioxo-(9CI) (CA INDEX NAME)
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LC STN Files: CA, CAPLUS, USPATFULL

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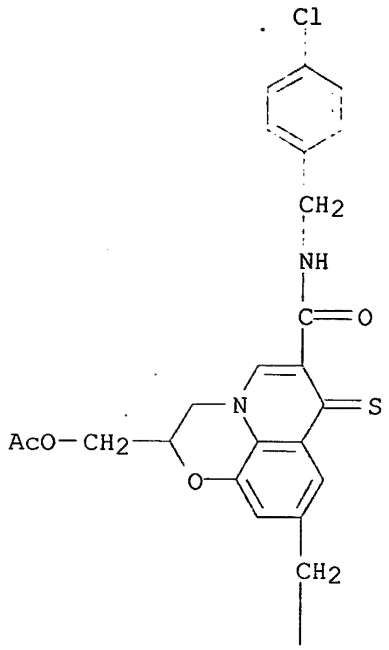

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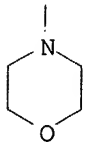

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L7 ANSWER 70 OF 157 REGISTRY COPYRIGHT 2003 ACS on STN
RN 389134-92-3 REGISTRY
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FS 3D CONCORD
MF C29 H27 Cl N4 O3 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

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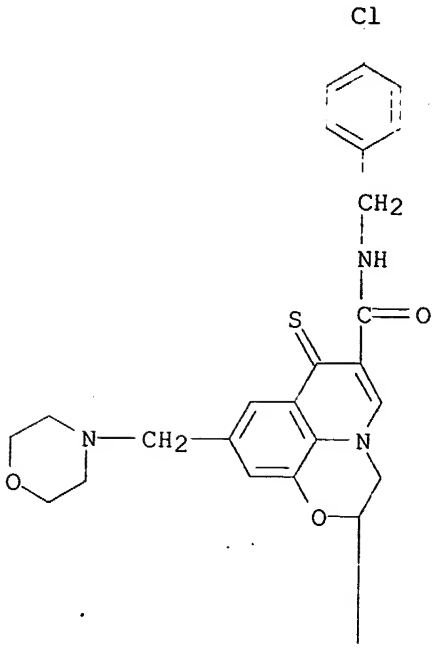

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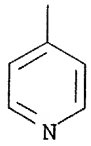

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RN 389134-60-5 REGISTRY
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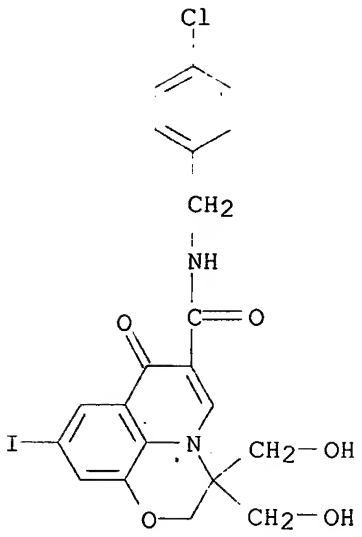
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



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REFERENCE 1: 136:102391

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FS 3D CONCORD
MF C30 H28 Cl N3 O5
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

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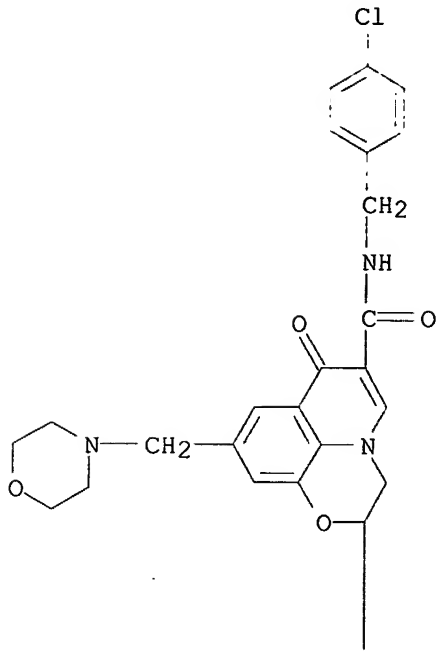

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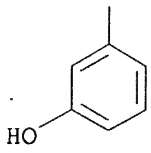
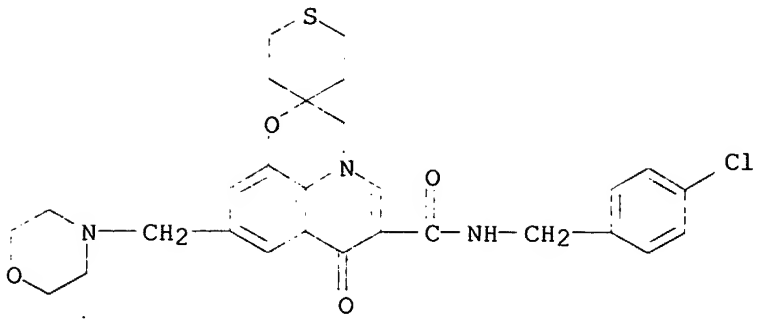


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:102391

L7 ANSWER 100 OF 157 REGISTRY COPYRIGHT 2003 ACS on STN
RN 389134-10-5 REGISTRY
CN Spiro[7H-pyrido[1,2,3-de]-1,4-benzoxazine-2(3H),4'-[4H]thiopyran]-6-carboxamide, N-[(4-chlorophenyl)methyl]-9-(4-morpholinylmethyl)-7-oxo- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C28 H30 Cl N3 O4 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:102391

L7 ANSWER 110 OF 157 REGISTRY COPYRIGHT 2003 ACS on STN
RN 389134-00-3 REGISTRY
CN 7H-Pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxamide, 2-[3,5-bis(methoxymethoxy)phenyl]-N-[(4-chlorophenyl)methyl]-2,3-dihydro-9-(4-morpholinylmethyl)-7-oxo- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C34 H36 Cl N3 O8
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

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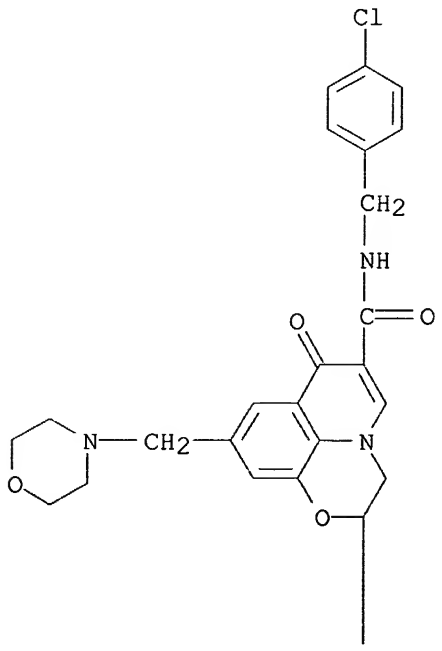

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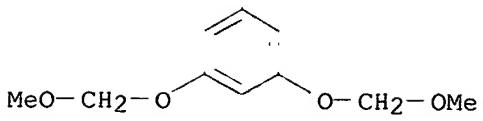

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:102391

L7 ANSWER 111 OF 157 REGISTRY COPYRIGHT 2003 ACS on STN
RN 389133-99-7 REGISTRY
CN 7H-Pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxamide, 2-(1,3-benzodioxol-4-yl)-N-[(4-chlorophenyl)methyl]-2,3-dihydro-9-(4-morpholinylmethyl)-7-oxo-(9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C31 H28 Cl N3 O6
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

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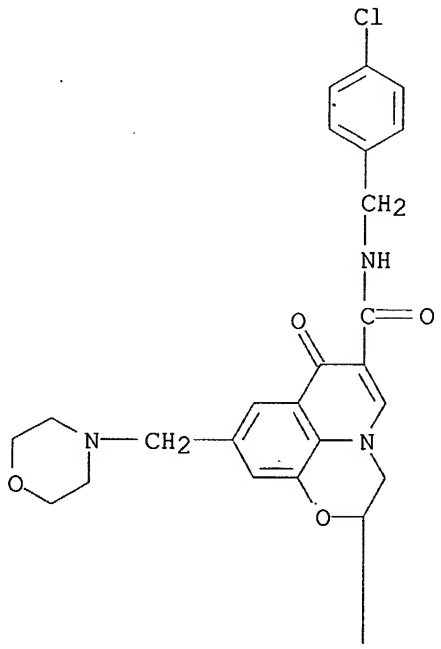

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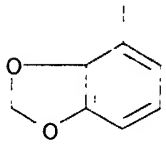

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:102391

L7 ANSWER 120 OF 157 REGISTRY COPYRIGHT 2003 ACS on STN
RN 389133-90-8 REGISTRY
CN 7H-Pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxamide, N-[(4-chlorophenyl)methyl]-2,3-dihydro-9-(4-morpholinylmethyl)-7-oxo-2-(2-pyridinyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C29 H27 Cl N4 O4
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

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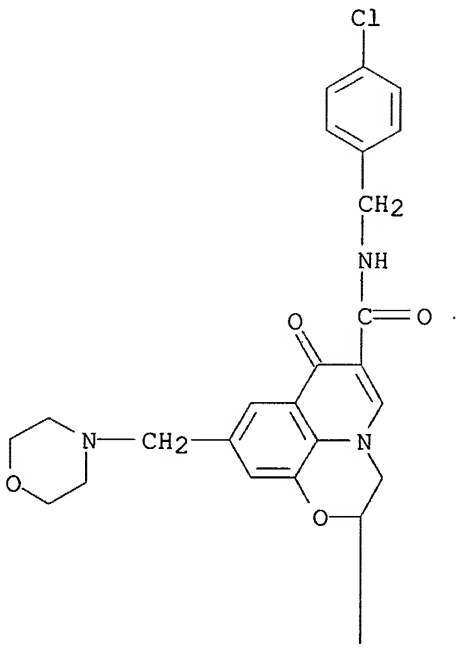
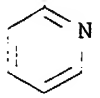




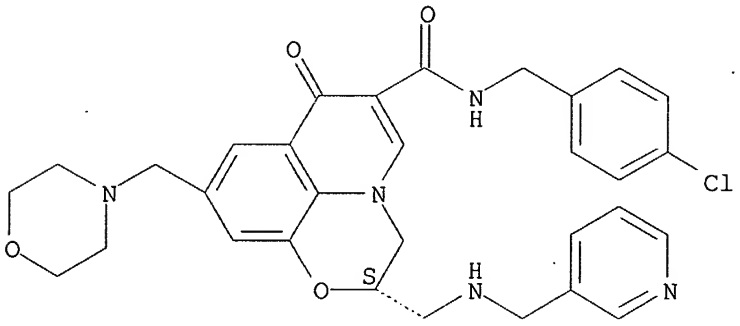
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:102391

L7 ANSWER 130 OF 157 REGISTRY COPYRIGHT 2003 ACS on STN
RN 389133-78-2 REGISTRY
CN 7H-Pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxamide, N-[(4-chlorophenyl)methyl]-2,3-dihydro-9-(4-morpholinylmethyl)-7-oxo-2-[[(3-pyridinylmethyl)amino]methyl]-, (2S)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C31 H32 Cl N5 O4
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:102391

L7 ANSWER 140 OF 157 REGISTRY COPYRIGHT 2003 ACS on STN
RN 389133-68-0 REGISTRY
CN 7H-Pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxamide, N-[(4-chlorophenyl)methyl]-2,3-dihydro-2-(1H-imidazol-1-ylmethyl)-9-(4-morpholinylmethyl)-7-oxo- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C28 H28 Cl N5 O4
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

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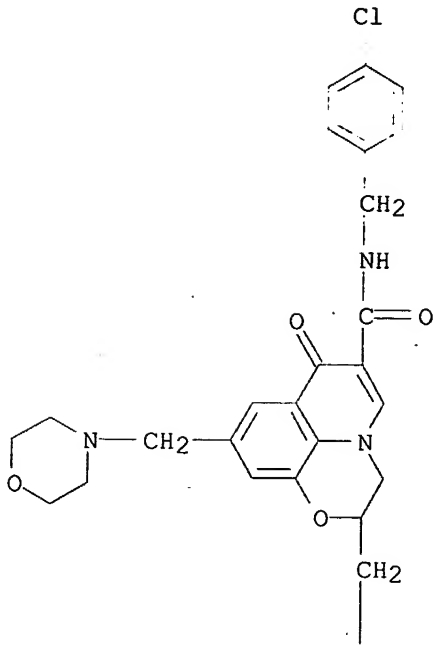

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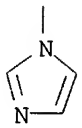

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:102391

L7 ANSWER 150 OF 157 REGISTRY COPYRIGHT 2003 ACS on STN
RN 389133-58-8 REGISTRY
CN 7H-Pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxamide, N-[(4-chlorophenyl)methyl]-2-[(dimethylamino)methyl]-2,3-dihydro-9-(4-morpholinylmethyl)-7-oxo- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C27 H31 Cl N4 O4
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

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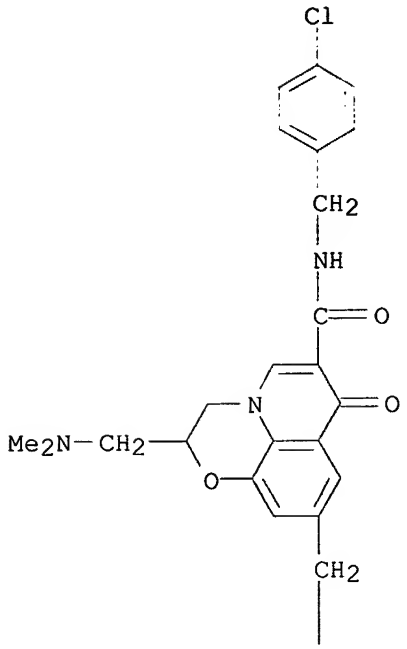

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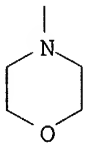

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:102391

L7 ANSWER 157 OF 157 REGISTRY COPYRIGHT 2003 ACS on STN
RN 333780-66-8 REGISTRY
CN 7H-Pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxamide, N-[(4-chlorophenyl)methyl]-2,3-dihydro-9-(4-morpholinylmethyl)-7-oxo- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C24 H24 Cl N3 O4
SR CA
LC STN Files: CA, CAPLUS, DRUGNL, DRUGUPDATES, USPATFULL

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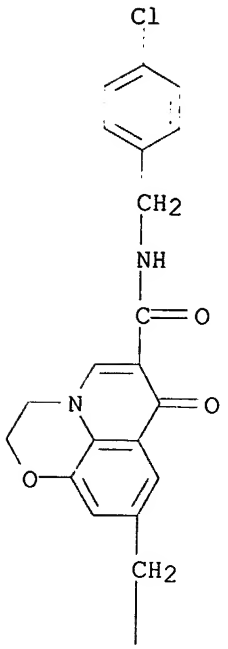

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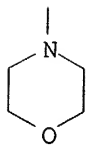

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:185492

REFERENCE 2: 136:129036

REFERENCE 3: 134:280849